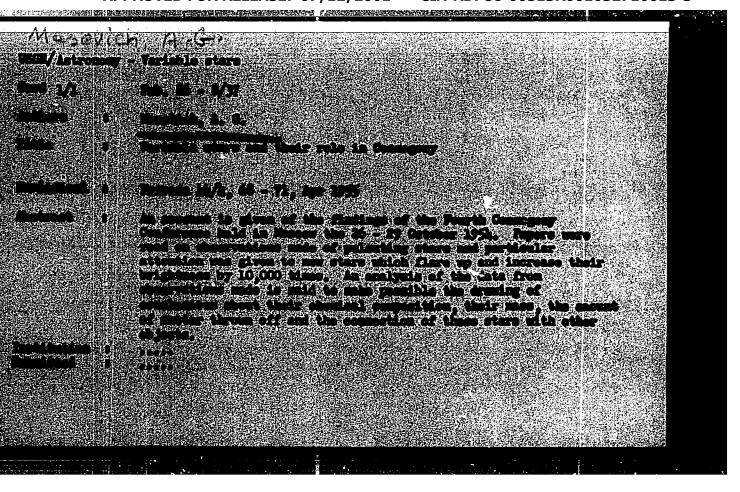
MASEVICH, A.G.

Evolution of early-type stars. Astron. shur. 32 no.6:498-502 E-D 155. (MIRA 9:2)

1.Gesudarstvennyy astronomicheskiy institut imeni P.K.Shternberga. (Stars)



MASEVICH,A.G.

On a visit with India's scientists. Priroda 44 no.6:57-62 Je '55.

(India--Scientists--Congresses)

(NIRA 8:7)

BAKULIN, P.I., otvet:tvennyy redaktor; DUBROVSKIY, K.K., redaktor [decessed]; KULAGIN, S.G., redaktor; MASEVICH, A.G., redaktor; PAREMAIO, P.P., redaktor; RAKHLIN, I.Te., redaktor; MURASHOVA, N.Ya., tekhnicheskiy redaktor

[Astronomical calender. Yearbook. Variable section for 1957]
Astronomicheskii kalendar'. Eshegodnik. Peremennais chast' 1957.
Red. kollegiis P.I.Bakulin i dr. Moskva, Gos. izd-vo tekhniko-teoret. Ilt-ry, 1956. 288 p. (Vassoiuznoe astronomo-geodesicheskoe obshchestvo. no.60)

(MLRA 10:3)

(Astronomy--Yearbooks)

MASEVICH, A.G.

Luminosity function of main sequence stars and its interpretation. Astron.shur. 33 no.2:216-221 Mr-Ap '56. (NLRA 9:8)

1. Gosufarstvennyy astronomicheskiy institut imeni P.K. Shternberga. (Stars--Radiation)

MASEVICH, A.G.

Subgiants and their relation to main sequence stars. Astron.znur.33 no.3:330-339 My-Je '56. (MIRA 9:10)

1.Gosudarstvennyy astronomicheskiy institut imeni P.K.Shternberga. (Stars--Classification)

MASEVICH, A.G.

Svolution of stars in the Hyades cluster. Astron. shur. 33 no.4:576-578 J1 - Ag '56. (MIRA 9:11)

1. Gosudarstvennyy astronomicheskiy institut imeni P. K. Shternberga. (Stars--Clusters)

MASEVICH, A.G.

Possible courses of continuous evolution of main sequence stars with constant and varying masses taking into consideration various. Soob. (Stars--Constitution) (MLRA 10:3)

RAKULIN, P.I., otvetstvennyy red.; KULAGIN, S.G., red.; MASTVICH , red.

PAREMAGO, P.P., red.; EAKHLIN, I.Ye., red.; AKHLAMOV, S.N., tekhn.red.

[Astronomical calendar; a yearhook. Variable section, 1958]

Astronomicheskii kalendar; Ezhegodnik, Peremenneia chast, 1958.

Red.kollegiia P.I.Bekulin.i dr. Moskva, Gos. izd-vo tekhniko-teoret.

1it-ry, 1957. 303 p. (Vsesoluznoe astronomo-geodezicheskoe obshchestvo, no.61)

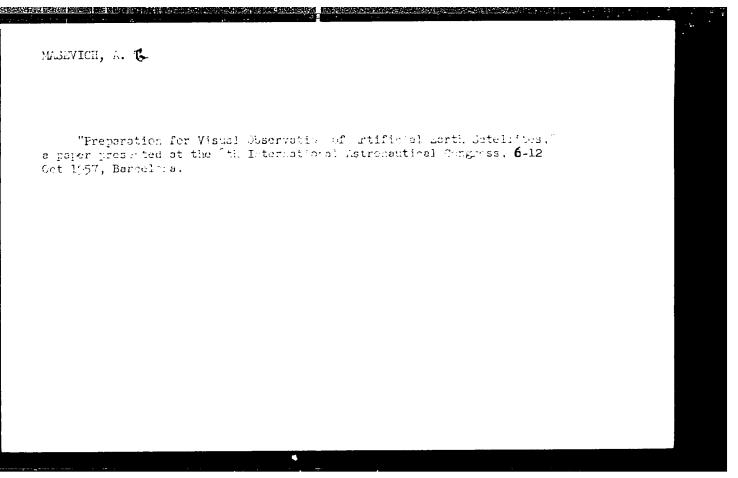
(Astronomy--Veerhooks)

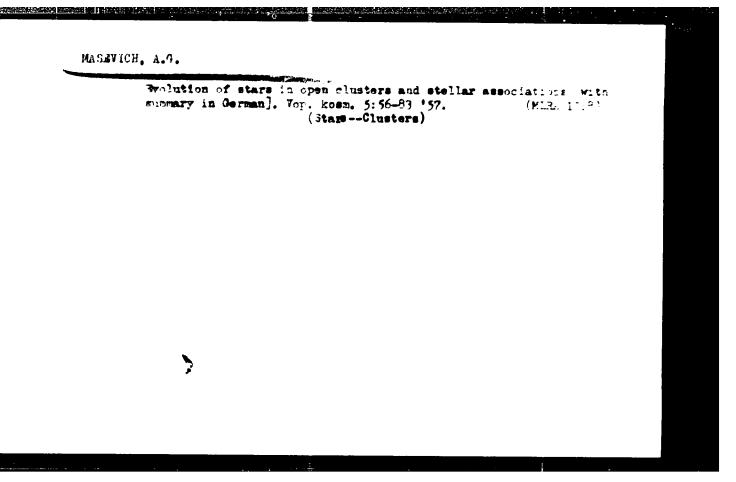
(MIRA 11:2)

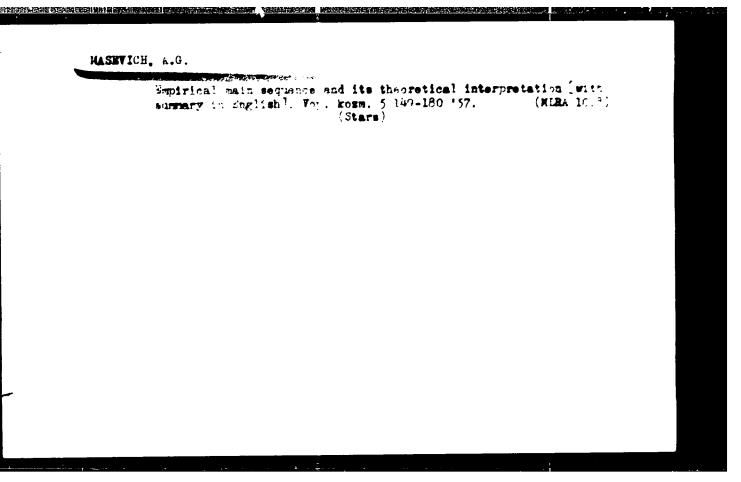
MASEVICH, A.G., red.

[Nuclear processes in stars; collected reports read at the Fifth International Colloquium on Astrophysics held in Liege, on September 10, 11, and 12 of 1953] IAdernye protsessy v zvezdakh; sbornik dokladov, prochitannykh na piatom Mezhdunarodnom kollokviume po astrofizike v L'ezhe 10, 11 i 12 sentiabria 1953 goda. Pod red. A.G.Masevich. Moskva, Izd-vo inostr.lit-ry, 1957. 422 p. (MIRA 14:12)

1. Colloque International D'astrophysique. 5th, Liege, 1953.
(Astrophysics—Congresses)







MASSFICE, A.G., kandidat fisiko-matematicheskikh nauk.

The physics of planetary mebulae; conference of the Commission on Cosmogony. Vest.AS SSSR 27 no.4:119-120 Ap '57. (MLRA 10:5) (Bebulae)

1, 4 6 Minne

30-8-22/37

AUTHOR:

TITLE:

Masevich, A.G.

On Outergalactic Astronomy and Cosmology (Vnegalakticheskaya

astronomiya i kosmologiya)

PERIODICAL:

Vestnik Akademii Nauk SSSR, 1957, Vol.27, Nr 8, pp.94-96 (USSR)

ABSTRACT:

The meeting which took place in Moscow from June 5th to June 7th was devoted to the problems of the above mentioned astronomy and cosmology. In his report V.A. Ambartsumiyan gave interesting details on this relatively new branch of science. Observations proved the assumption that stellar fogs are not evenly distributed; there are dense parts and accumulations which may be called "light cloud formations". In spite of this, theoretical research is based upon the assumption that the distribution of luminescent cosmic fog is of uniform character. The reviewer further remarked that already now there is no doubt that an expansion of the universe exists. Another reviewer contributed, interesting observation results with respect to spiral fogs. The assumption hitherto held that the spiral fog tails are rotating solar systems is said to have been disproved.

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30-8-22/37

On Outergalactic Astronomy and Cosmology

A.L. Zelmanova gave a report on the relativity theory of the anisotropic heterogeneity of the universe. Some reviewers dealt with the problems of the thermodynamics of the universe and a discussion took place on the so-called fluctuation hypothesis. In conclusion a discussion on general problems of cosmology took place.

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Card 2/2

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30-11-23/23

AUTHOR:

Masevich, A. G.

TITLE:

The Problem of Cosmic Gasdynamics. An International Conference in the USA. (Problemy kosmicheskoy gazodinamiki. Mezhdunarodnaya konferentsiya v SShA.)

PERIODICAL:

Vestnik AM SSSR, 1957, Vol. 27, Nr 11, pp. 140-143 (USSR)

ABSTRACT:

The physicists interest in these problems has constantly increased, as the problem of the acceleration of cosmic rays and their lives in the space of the galactic system, as well as the investigation of the formation of interastral magnetic fields is closely connected with the motion of the so-called interastral gases. Representatives of astronomy, physics and mechanics met in Cambridge (Kembridzhe), USA; this was the third international symposium devoted to problems of cosmic aerodynamics. The report by the Dutchman Van der Kholst (observations of the radicemission on the 21 cm wave) caused great interest. G. Vokuler (USA) reported on the observations made in Australia of the spiral structure of the galactic made in Australia of the spiral structure of the galactic system. O. Vilson (USA) dealt with the new research data regarding the inner kinetics of the planetary nebulae, G. Myunkh (USA) with the internal motions in the nebula of Orion,

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The Problem of Cosmic Gasdynamics.

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R. Minkowskiy (USA) reported on the investigation of the group of fiber-like nebulae in the Swan, R. Devis (England) thoroughly examined the physical conditions in the gas-dust clouds on the basis of the most recent results of the observation of radio-radiation. Much attention in reports and discussions was paid to the problem of the dissipation of energy. Kh. Petchek (USA), L. Birman and A. Shlyuter (German Federal Republic - PRG) talked on this topic. Some speakers dealt with the nature of the magnetic field of the spiral extensions of the galactic system. Very great attention was paid by the conference to the problem of the gas-corona and of the formation of the radio-radiation (S.B. Pikel'ner). V.A. Ambartsumyan talked on the genetic connection of young stars with the diffuse environment. By means of observations made he rejected the hitherto existing assumptions with regard to the formation of the stars from an interestral substance. The members of the soviet delegation made themselves acquainted with the institutions and the organization of the optical observations of artificial earth satellites in the USA. The delegation visited the astrophysical observatory in Cambridge (Massachusetts) and a number of other scientific institutions in the USA. Then the

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The Problem of Cosmic Gasdynamics.

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report deals with the details of the optical observations of the artificail earth satellites in the USA. The delegation showed great interest for the or mnization and equipment of

the Massachusetts Institute of Technology.

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499

AUTHOR: TITLE:

Masevich, A. G.

The evolution of stars in the X and h Per cluster.

(Evolyutsiya zvezd v skopleniy X i h perseya.)

PERIODICAL:

"Astronomicheskiy Zhurnal" (Journal of Astronomy),

1957, Vol.34, No.2, pp. 176-182 (USSR).

ABSTRACT:

The H - R diagrams for the nucleus and the surrounding association of the double cluster of X and h Per show marked differences. Fig.1 shows the H-R diagram for the nucleus of the above double cluster and Fig. 2 the H - R diagram for the association of the

double cluster. (● - stars of the main sequence, 0 - weak supergiants, □ - bright supergiants.

From the data of Johnson and Hiltner (1)). The diagram for the nucleus is similar to the usual diagram for a cluster of an early spectral type. The characteristic difference between this diagram and the diagram for the association (Fig.2) is the presence in the latter of stars of the main sequence of the earliest spectral types (05 - B0), which lie on the undeviated (primary)

upper branch of the main sequence. A further difference is in the interval between the primary branch and the branches deviated from it.

disposition of the supergiants in Fig.2 is reminiscent

The evolution of stars in the X and h Per cluster. (Cont.)

of the evolutionary curves of gravitationally contracting stars (2). This is further emphasized by the presence in Fig. 2 of a few 0 - stars situated under the main sequence. For massive stars, such as the supergiants considered here, such an evolution takes place very quickly (in any case a time less than 106 years is required). A comparative study of the H - R diagrams of the double cluster leads to the conclusion that the age of the nucleus and the association is roughly the same, but while in the association the process of star-formation continues, it has ceased The deviation of the altogether in the nucleus. brightest stars in clusters from the mean line of the main sequence is usually taken to be the result of the evelution of these stars when heterogeneity in the chemical composition first begins as a result of the absence of intermixing of matter between the radiant envelope and convective nucleus (3, 4). The so-called "primary" main sequence can be found theoretically The first method (evolution of stars occurs at constant mass with no intermixing) was given by Johnson and Hiltner (1 and 5). The primary theoretical main sequence as calculated by them is

The evolution of stars in the X and h Per cluster. 499 (Cont.)

shown in Fig.3 (dashed line). The second method was used by the present author and is described in Refs. 3 and 6. The full line of Fig. 3 shows the result of these calculations (absorption law: chemical composition corresponding to that of the sun; energy source: the hydrogen-nitrogen cycle). The results of calculation of evolutionary curves (no intermixing; variable mass) are given in the table on p.180. (Nucleus: first line of numbers. Association: last two lines. First column shows the star under consideration). Further details are given in Ref.8. As can be seen the age t is higher by one order for the nucleus. The above conclusions are in agreement with Oort's theory (11) on the formation of expanding 0 - associations. It is argued that Munch's paper on the age of early type supergiants leaves out at least one important consideration. A star of the main sequence can only change into a bright giant of an early spectral type if in it intermixing does not take place, i.e. hydrogen burns out only in the convective nucleus which includes about 0.1 of the mass of the star. A star having the mass 20 M will reach this stage in $\simeq 2 \times 10^{6}$ years. After this, 6

The evolution of stars in the X and h Per cluster. (Cont.)

the "peaceful" evolution of the star ends and it either undergoes a catastrophe or, if its development continues with a contracting nucleus, it will become a red giant. In either case the result will not be a supergiant of an early type. In order that the stars considered by Munch (12) should have an age of \sim 2 x 10⁷ years their mass must be of the order of 200 - 300 Mg. It is suggested that the supergiants considered by Munch have an age ~10° years, but they were formed not in the galactic plane but at larger latitudes.
3 figures, 1 table, 12 references, 4 of which are Russian.

State Astronomy Institute imeni P. K. Shternberg.

Recd. Oct. 15, 1956.

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Masevich, A. AUTHOR:

and cosmology.

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A meeting of the Committee for Cosmogony devoted to the TITLE:

development of work on cosmology. (Soveshchaniye

komissii po kosmogonii, posvyashchennoye nerspektivam

razvitiya rabot po kosmologii).

"Astronomicheskiy Zhurnal" (Journal of Astronomy), PERIODICAL:

1957, Vol.34, No.2, pp. 311-312.

Representatives of astronomical, physical and philosophical institutions in Moscow and other towns ABSTRACT:

were present. V. A. Ambartsumyan noted that not enough attention was given in the U.S.S.R. to the problems of cosmology while a large number of papers has appeared in this field in other countries. He suggested a series of problems that could be tackled. A. L. El'manov also noted insufficient attention paid in the U.S.S.R. to non-relativistic cosmology. In the exposition of a whole series of cosmological aspects, in particular, those that have ideological implications, it is necessary to exclude simplifications and dogmatism. Possible fields of research (origin of chemical elements, radioastronomy, applications of thermodynamics and statistical physics etc.) were suggested by other members. A conference is to be called in 1957 on the problems of cosmogony. It will be devoted to extragalactic astronomy An approach has been made to the "Uspekhi

A meeting of the Committee for Cosmogony devoted to the development of work on cosmology. (Cont.)

Fizicheskikh Nauk" and "Voprosy Kosmogonii" to publish review articles on extragalactic astronomy and cosmology. Translations of the appropriate foreign books will be carried out.

Recd. Feb. 23, 1957.

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AUTHOR: Nikolskiy, G.M. and Masevich, A.G. 33-3-27/32

TITIE: Comments by Nikolskiy on the paper by A.G. Masevich "Luminosity function for stars of the main sequence" and author's reply.

PERIODICAL: "Astronomicheskiy Zhurnal" (Journal of Astronomy), 1957, Vol.34, No.3, pp. 493-494 (U.S.S.R.)

ABSTRACT: A.G. Masevich (1) considers the important problem of the evolution of stars of the main sequence. The analysis of this problem is carried out by him in the following way:

Suppose that stars are formed continuously and n stars per second enter the main sequence at the point Mo (absolute stellar magnitude). Evolution takes place in the same way for all stars which move down the main sequence. If t is the time of evolution of a star from the point Mo to the point Mo (see formula 7 in (1))- then:

 $nt = \prod_{M_0}^{M} \phi (M) dM$

Card 1/4

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where •(M) is the luminosity function observed at the pres-

33-3-27/32

Comments by Nikolskiy on the paper by A.G. Masevich "Tuminosity function for stars of the main sequence" and author's reply. (Cont.)

of the second type (Mo greater than M , dM negative) Masevich used the limits of the integral in eq. (1) incorrectly and hence his conclusions are invalidated by this mathematical error. n is always positive. There are two Slavic references.

AUTHOR'S REPLY

Nikolskiy's article is based on a misunderstanding. It is well known that in all the possible cases of evolution of stars at constant mass, the luminosity and the radius of the star increase. Since the mass is constant, it follows that, after a time, the star ceases to obey the mass-luminosity and the massradius relations characteristic of the main sequence and hence 'leaves' the latter. This was considered in detail in (2) and (3) and is not, and cannot be, a consequence of eq. (2) in Nikolskiy's note. It is surprising that Nikolskiy should quote (2) since this work, although printed, has not been issued and is still being stored by the publishers. Conversely, the result obtained in a discussion of evolution at constant mass in (1) without the transposition of the limits of integration in (1) is treated (perhaps not very successfully) simply as a

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33-3-27/32

Comments by Nikolskiy on the paper by A.G. Masevich "Tuminosity function for stars of the main sequence" and

mathematical expression of known facts and could be omitted author's reply. (Cont.) without effect on the conclusions that follow. The choice between the two alternative evolutionary hypo-

The choice between the two alternative evolutionary hypotheses using the luminosity function is based in (1) not on the sign of n but on its magnitude (n is the number of stars being formed and is necessarily positive). Nikolskiy's criticism is thus rejected and the conclusions reached in (1) cism is thus rejected and the conclusions reached in (1) . There are 4 Slavic references.

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Card 4/4

MASEVIAHA 1-

33-5-6/12

An Investigation of Evolutionary Sequences of Homogeneous AUTHOR: Ruben, G. and Masevich, A. Stellar Models with a Convective Rucleus. (Issledovaniye Evolyutsionnykh Posledovatel nostey Odnorodnykh Zvezdnykh TITLE: Modeley s Konvektivnym Yadrom.)

PERIODICAL: Astronomicheskiy Zhurnal, 1957, Vol. 34, Ho.5,

ABSTRACT: A detailed calculation using the stellar model with a 3.575m-3.5 convertive nucleus and the absorption law K = K of the present authors in has been carried out by one of the present authors. Refs. 1 and 2. Possible ways of developing this model in the case of homogeneous and inhomogeneous chemical composition to case of the main tion were considered in application to stars of the main sequence. In the present work the possibility of an application of such a model to the problem of structure and evolution of stars of other sequences in Russell's diagram is considered. The authors start with a model having the same chemical composition in both the shell and the convective nucleus. The carbon cyclic reaction is taken as the source of energy according to $\varepsilon = \varepsilon$ XZ The continuous evolution (see a result of smaller) The continuous evolution (as a result of gradual transformetion of hydrogen into holism) Card 1/4 ation of hydrogen into helium) of such a model is considered

An Investigation of Evolutionary Sequences of Homogeneous Stellar Models with a Convective Nucleus.

Models with a Convective Nucleus.

in the case of constant and variable mass. Using the notation of References 1 and 2 the relation between the luminosity L₁ and the stellar mass M₁ is written in the Figure 1 shows the calculated dependence of lgL_1 on lgR_1 for different values of γ where R_1 is the form L₁ = M₁ relative radius. The relation between these two quantities is linear. An analysis is given of the effect of different parameters on the form of evolutionary curves. Various possible laws of change of mass are considered (different Y in Ref. 5). In each of the models there is a limiting value of y which depends on the form of the law of formation of energy but is almost independent of the model itself. Within the limits of each possible Y there are certain within the limits of each possible to the absolute magnitude of which maximum values of M and R the absolute magnitude of which depends on the accepted model. It is shown that the theoretical curve corresponding to Y = 3.9 represents the main sequence quite well. Using other values of Y one obtains evolutionary sequences which do not correspond to Card 2/4 real stellar sequences for which the mass is a function

33-5-6/1**2**

An Investigation of Evolutionary Sequences of Homogeneous Stellar Models with a Convective Nucleus.

of both the luminosity and radius. In the case of Y = 3.9both M and R reach their maximum values at the same value of Z, where Z is the content of elements heavier than helium. Using results obtained for Y \$ 3.9 it is shown that the structure and evolution of a sub-dwarfs can be explained by the present model if one assumes that the amount of heavy elements in them is about 20 times less than in stars of the main sequence. Theoretically possible masses of such stars are comparable with the masses of real sub-dwarfs. On the other hand sub-giants can be explained on this model if one assumes that the amount of heavy elements in this group is four to five times
higher than in the stars of the main sequence. This is in agreement with results obtained earlier (Ref. 5). It is pointed out that although it is possible to explain the structure of both sub-dwarfs and sub-giants on the above mode? sing certain assumptions as to the heavy element content relative to the stars of the main sequence it must nevertheless be remembered that the necessary condition in all the colculations is full inter-mixing (same chemical composition in shell and nucleus) which in Card 3/4 general may not be observed. There are 11 figures,

33-5-6/12

An Investigation of Evolutionary Sequences of Homogeneous Stellar Models with a Convective Nucleus.

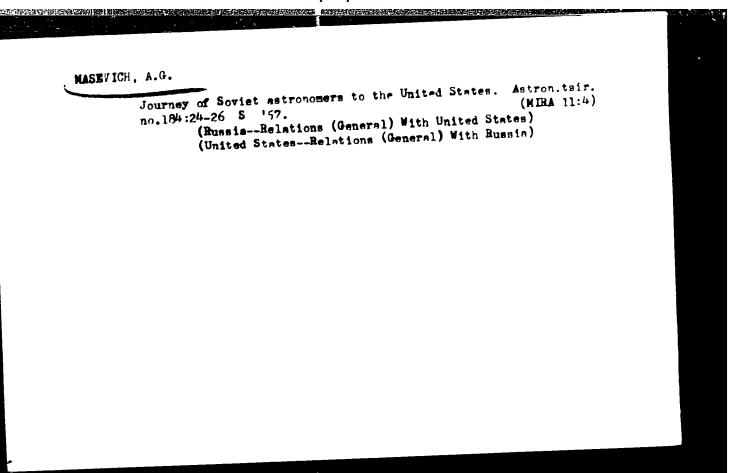
8 tables, 5 references, all of which are Slavic.

SUBMITTED: April, 12, 1957.

ASSOCIATION: State Astronomical Institute, imeni P.K. Shternberg, Potsdam Astronomical Observatory, German Democratic Republic. (Gos. Astronomicheskiy In-t im. P.K. Shternberga, Potsdamskaya Astronomicheskaya Observatoriya, Hermanskaya Demokraticheskaya Respublika.)

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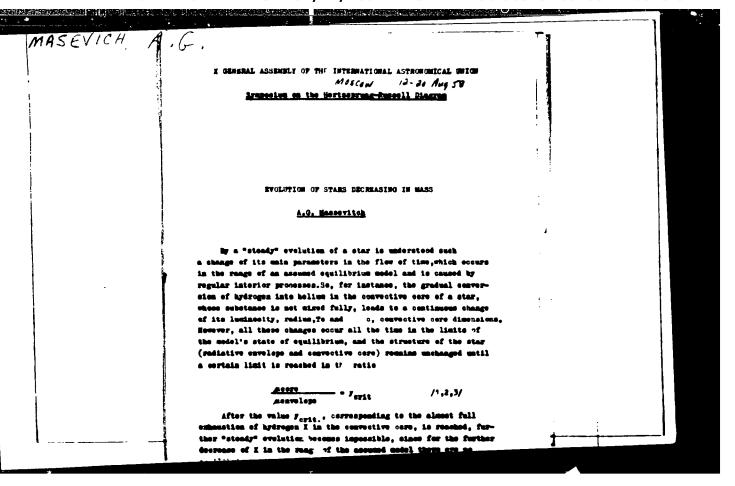


GINDIN, Yo.Z.; LEYKIN, G.A.; LOZINSKIY, A.N.; MAGENICH, A.G.; AL'PERT, Ya.L.; CHITESTERIO, B.F.; SHAPIRO, B.S.; GALKIE, A.M.; GORLOV, O.G.; KOTOVA, A.F.; KOSOV, I.I.; PETROV, A.V.; SEROV, A.D.; CHERNOV, V.H.; TAKOVLEV, V.I.; MIKRATIOV, A.A., otvetstvennyy red.; BEN'KOVA, M.P., doktor fig.-mat. nank, otvetstvennyy red.; SIIKIN, B.I., red.; PODOL'SKIY, A.D., red.; PRUSAKOVA, T.A., tekhn. red.

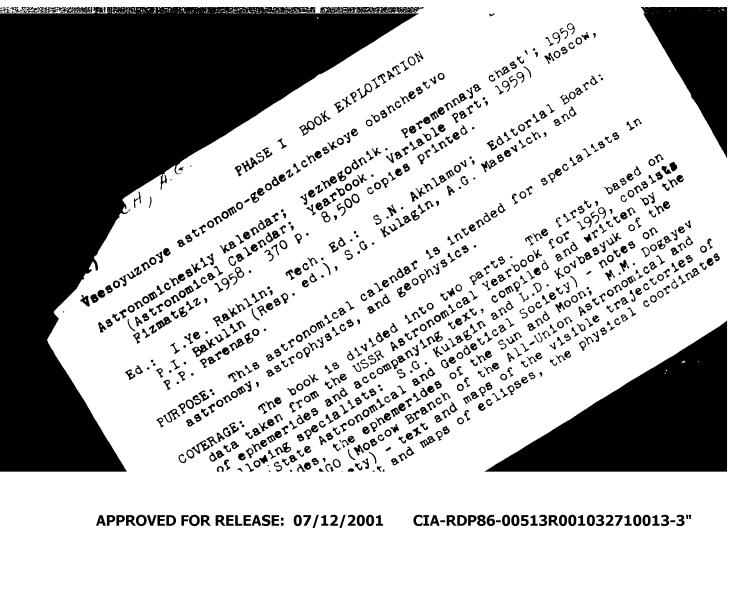
[Preliminary results of the scientific research on the first Soviet artificial earth satellites and rockets; collection of articles in the 11th section of the IGY program (rockets and satellites)] Predvaritel'nye itogi nanchnyykh issledovanii s pomoshoh'iu pervykh sovetskikh iskusstvennykh sputnikov semli i raket; sbornik statei (XI razdel programy MIG - rakety i sputniki). Moskva, Izd-vo Akad. nauk SSSR. No.1. 1958. 148 p. (MIRA 11:10)

U.S.S.R.) Meshduvedomstvenyyy komitet po provedeniyu Meshdunarodnogo geofizicheskogo goda. 2. Chlen-korrespondent AN SSSR (for Mikhaylov).

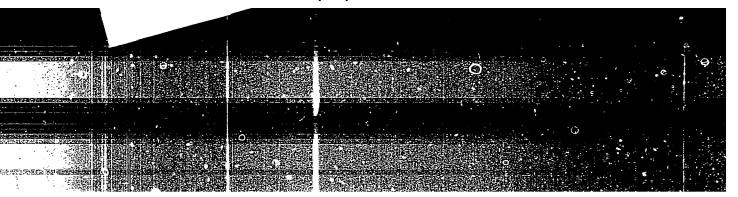
(Atmosphere, Upper-Rocket observations) (Artificial satellites)



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MASIVILOH, A.G.

3(1)

PHASE I BOOK EXPLOITATION

SOV/1840

Vsesoyuznoye astronomo-geodezicheskoye obshchestvo

- Astronomicheskiy kalendar; yezhegodnik. Peremennaya chast'; 1959 (Astronomical Calendar; Yearbook. Variable Part; 1959) Moscow, Fizmatgiz, 1958. 370 p. 8,500 copies printed.
- Ed.: I.Ye. Rakhlin; Tech. Ed.: S.N. Akhlamov; Editorial Board: P.I. Bakulin (Resp. ed.), S.G. Kulagin, A.G. Masevich, and P.P. Parenago.
- PURPOSE: This astronomical calendar is intended for specialists in astronomy, astrophysics, and geophysics.
- COVERAGE: The book is divided into two parts. The first, based on data taken from the USSR Astronomical Yearbook for 1959, consists of ephemerides and accompanying text, compiled and written by the following specialists: S.G. Kulagin and L.D. Kovbasyuk of the GAGO (State Astronomical and Geodetical Society) notes on ephemerides, the ephemerides of the Sun and Moon; M.M. Dogayev of the MOVAGO (Moscow Branch of the All-Union Astronomical and Geodetic Society) text and maps of the visible trajectories of the planets, text and maps of eclipses, the physical coordinates Card 1/10

THE PROPERTY OF THE PROPERTY O SOV/1840 Astronomical Calendar; Yearbook. Variable Part; 1959 of the Sun, Moon, Mars, and Jupiter, the satellites of Jupiter the Satellites and helio-and Saturn; N.D. Rozenblyum (MOVAGO) yegorchenko. A.A. Kaverin. and Saturn; N.D. Rozenblyum (MUVAUU) - empnemerides and hello-centric longitudes of planets; I.F. Yegorchenko, A.A. Kaverin, T.G. Konstantinova. V.A. Kuklina C.V. Kuklin 7 C. Sazonova centric longitudes of planets; I.F. Yegorchenko, A.A. Kaverin, Z.G. Sazonova, T.G. Konstantinova, V.A. Kuklina, G.V. Kuklin, Z.G. Sazonova, T.G. Konstantinova, V.A. Chernykh data on 144 points in the L.I. Chernykh, and N.S. Chernykh of October 2 1050. Va. Chernykh for the full solar eclinse of October 2 U.I. Chernykh, and N.S. Chernykh - data on 144 points in the Demido-USSR for the full solar eclipse of October 2, 1959; Ye.G. Demido-wich (GAGO) - Occultation of the stars and planets by the Moon. USSK for the rull solar eclipse of October 2, 1909; ie.u. Meilluck (GAGO) - occultation of the stars and planets by the Moon, observation of the Polar Star Computation of stallar coordinate Vich (GAGO) - occultation of the stars and planets by the Moont, observation of the Polar Star, computation of stellar coordinates; observation of the Polar Star, computation of stellar coordinates; observation of the Polar Star, computation of stellar coordinates; observation of the Polar Star, computation of stellar coordinates; observation of the Polar Star, computation of stellar coordinates; observation of the Polar Star, computation of stellar coordinates; observation of the Polar Star, computation of the Polar Star Observation of the rolar Star, computation of stellar coordinate v.A. Bronshteyn (MOVAGO) - comets; N.S. Yakhontova - the lesser who send the parous (MOVAGO) - wordship at an and the send the send that the send the send that t V.A. Bronshteyn (MOVAGO) = comets; N.S. Yakhontova = the lesser The second planets; and, N.B. Perova (MOVAGO) = variable stars.

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including the variable ones, the spiral structure of the Galaxy, the Sun, the planets, comets, the Moon's atmosphere, the nature of Venus and Mars, and the meteors.

Artificial Satellites of the Earth and the Danger in Astronautics - From Meteors (V.V. Fedynskiy)

The author reports mainly on studies of cosmic rays, the Sun's corpuscular radiation, micrometeorites (recorded by means of ammonium-phosphate piezoelectric counters) and the annual distribution of micrometeorites and their tentative quantities.

The Mrkos Comet (1957 d) (F.Yu. Zigel')

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This article discusses the Mrkos Comet which was discovered on August 3, 1958. The comet's parabolic orbital elements are computed and the comet photographed. Observed by several Soviet astronomers its study provided much new material.

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Noctilucent Clouds in 1957 (N.I. Grishin)

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Stereotriangulation methods for determining the height of clouds are described.

Interaction and Nature of Galaxies (B.A. Vorontsov-Vel'yaminov) 231
This article treats galactic bodies, tails, the units bridging them, and also double and multiple galaxies.

Soviet Astronomers in the United States of America (A.G. Masevich) 243
This article describes the June-July 1957 visit of a Soviet delegation of astronomers, headed by V.A. Ambartsumyan, to the United States.

The Eighth International Astronautical Congress (A.G. Masevich) 263 This article describes the Astronautical Congress held October 12, 1957 in Barcelona.

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Joint Visiting Session of the Astronomical Council of the AN SSSR and the Academy of Sciences of the Azerbaydzhan SSR (M.A. Klyakotko)	
This article treats the meeting at which M.M. Aliyev, A.A. Mikhaylov, A.A. Yakovkin, S.K. Vsekhsvyatskiy, V.V. Sharonov, V.P. Shcheglov, Z.I. Khalilov, V.A. Krat, and G.F. Sultanov participated.	271
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The article provides a detailed historical account and description of the Tashkent Astronomical Observatory of the Academy of Sciences of the Uzbek SSR, the oldest scientific research institution in Central Asia. The Observator ard 7/10	286 - 7y

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maintains its own meteorological station, a Time Station which provides 17 time signals in 24 hours, a Solar Laboratory which conducts systematic studies of the Sun's chromospheric flares on the basis of spectroscopic and photometric observations (Yu.M. Slonim, Chief, and K.F. Kuleshova, Z.B. Korobova, and B.N. Tirnshteyn, staff members), and a network of meteorological and other research stations. Of particular interest is the Kitaba International Latitude Station imeni Ulugbek situated 3 km, from the town of Kitaba in the Kashka-Dar'inskaya oblast'. Administered by the Observatory since 1941, the Station has conducted regular observations since 1930. Its staff members include A.M. Kalmykov, Director, D.I. Kravtsev, scientist; and P.V. Shcheglov and V.S. Obraztsov, laboratory assistants. A zenith-telescope APM-2 was installed there in June 1958. In 1932 the Observatory came under the jurisdiction of the Committee on Science of the Central Executive Committee of the Uzbek SSR, since which time it has engaged in a program of research in exact time determination, solar activity, and meridian and photographic astronomy. It had been conducting regular observations of sun spots and solar protuberances since 1932. The Observatory's staff includes M.F. Bykov, who completed the work begun in 1945 of determining the direct ascension of weak stars by the absolute

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method; Kh.R. Shakirova, B.V. Yasevich, and A. Kadyrov, who made thorough studies with two passage instruments of personal and instrument errors, V.P. Shcheglov, V.T. Beda, B.Zh. Bal'zhinova, B.V. Yasevich, N.A. Omelina, L.N. Koshkina, M.G. L'vova, and G.I. Kazakov, who, in cooperation with IGY program, engaged in daily determinations of time corrections on two passage instruments and in the reception of a large number of rhythmic signals, V.A. Mal'tsev and N.N. Sytinskaya - observation of meteors; A.A. Latypov, I.M. Ishchenko, and G. Kim - regular photographic observations of the Earth's artificial satellites; F.G. Ustimenko, Chief Mechanical Engineer, and Ye.P. Kolesnikova, Head Librarian. Some of the newer equipment possessed by the Observatory include: a passage instrument APM-10, new printing chromographs, radio reception and measurement apparatus, two sets of quartz clocks obtained in 1958, a normal astrograph, a meridian circle, a zenithtelescope APM-2 set up in 1957, a solar protuberance spectroscope (obtained 1932), a standard spectrohelioscope (obtained 1935), a

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mechanism for spectroheli	telescope, a celostat with a loscope, and a microphotometer Observatory (TAO) published Circulars.	MH-4.
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Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 6, pp 140 - 141 (USSR)

AUTHORS:

Gindin, Ye.Z., Leykin, G.A., Lozinskiy, A.M., Masevich, A.G.

TITLE:

The Optical Observations of Artificial Earth Satellites

PERIODICAL:

V sb.: Predvarit, itogi nauchn, issled, s pomoshch'yu pervykh sov. iskustv. sputnikov Zemli i raket, Moseow, AS USSR, 1958.

pp 5 - 39 (Engl. Res.)

ABSTRACT:

The Astronomicheskiy sovet Akademii nauk SSSR (Council of Astronomy of the USSR Academy of Sciences) was put in harge of organizing the optical observations of artificial earth satellites. Sixty-six visual stations and twenty-four orctographic stations were established for observing the satellites. The visual observation stations began their activity at the time when the first Soviet satellite was launched, while photographic observations have been performed systematically since the beginning of 1958. The visual observation methods were determined by the tasks they must establish the position of a satellite or

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The Optical Observations of Artificial Earth Satellites

the celestial sphere with an accuracy of 0.5 to 1° and the time within 0.5 to 1 sec, and must report the observation results to the computer center within the shortest time. Two "optical barriers", each consisting of about 30 telescopes, were established to facilitate the observation of satellites having a low brightness and moving on the sky with a velocity of 10 per 1 sec, 1f the orbit is known only approximately. The barriers are located on the meridian and along a vertical circle perpendicular to the visible orbit of the satellite. The sight lines of the telescopes are adjusted in such a way that each section of the optical barrier is covered twice. For determining the time of passage of a satellite with an accuracy exceeding 1 sec, the time signals and the signals given by the observer at the time when the satellite passed, are recorded on tape. After the termination of the observations, the tape recording is reproduced at a low speed and the precise moment of passage is determined by a chronoscope. The coordinates of the satellite are determined by the sidereal maps of A.A. Mikhaylov's atlas or of A. Bechvarzh's atlas. When observing satellites of low brightness (15 - 8 stellar magnitude) the AT-1 telescope is used, which is a small wide-angle telescope having a 50 mm objective lens and six-power magnification. The field of view is 110

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The Optical Observations of Artificial Earth Satellites

The stations observing the satellites are provided with signals of the correct time by feeding to them second tone signals. On the basis of observation data, the computer center informs the stations on the coming passage of a satellite The station receives a coded telegram containing information on the time and altitude of a satellite's passage in the meridional plane and in the plane in which the nearest point of the orbit is located, Observations of artificial satellites are also performed on the territories of the Chinese People's Republic (KNR), the German Democratic Republic (GDR), Czechoslovakia, Poland, Hungary, Rumania, and Bulgaria, where 45 stations are in operation Further, observatories in England, Scotland, Ireland, the US and other countries were included in the visual and photographic observation system of the Soviet satellites. At some stations, besides the visual observations, the positions of the carrier rocket and the second Soviet satellite are determined photographically by Tzorkiy" cameras With "Yupiter 8" lenses P At the time of the satellites passage across the field of view of the camera, the shutter is opened for a brief time interval (2 - 5 sec). The begin and the end of the exposure are marked by a chronograph. It is possible to determine by photo-

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The Optical Observations of Artificial Earth Satellites

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graphic observations the position of a satellite with an accuracy of 3' - 5' of arc. The Council of Astronomy discussed the problem of using light flashes of short duration on the object for a precise determination of a satellite's position. The position of a satellite may be determined with an accuracy of 2 - 3 sec of are when using cameras with a long focal length (F - ~1 m) for photographing the satellite. Using the data of these observations for triangulation on the earth's surface, the distance between different points (especially between continents) and also the shape of the geoid may be determined with an accuracy of 10 m. However, the photography ${\cal U}$ of satellites is made difficult by the following circumstances: 1) the observations are possible only at dusk; 2) cameras with a very great light power are required; 3) the setting of precise time marks is complicated. These difficulties can be overcome if the satellite is equipped with a light source producing brief flashes by which it may be photographed at night. It is expedient to provide series of flashes and not a continuous feed, taking into consideration that at least two or three flashes must arrive in the field of view of the instrument. In this way it is possible to determine not only the position but also the angular velocity of a satellite. Otviously,

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The Optical Observations of Artificial Earth Satellites

a pulse gas discharge lamp should be used as a light source, whose light output reaches 60 lm/w. The brightness of a satellite depends on the following reasons: 1) changes in the satellite's phases, i e in the configuration sum - satellite - observer; 2) changes in the distance to the observer; 3) light absorption in the section of its path from the satellite to the observer; 4) rotation and tumbling of a satellite, 5) changes in the state of the satellite's surface. The determination of the period of rotation (tumbling) of the satellite's body and changes of this period in time are of the greatest interest. Another important problem is the investigation of the dependence of the brightness and color of a satellite on the state of the earth's atmosphere. Finally, the third problem is the change of the state of the satellite's surface under the influence of the atmosphere and extraterrestrial agents. For sciving the aforementioned problems a precise quantitative determination of brightness changes of a satellite and observations over a possibly great section of its trajectory are necessary. Presently, two methods are used for measuring a satellite's brightness. The first method consists in a

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The Optical Observations of Artificial Earth Satellites

comparison of the brightness of the satellite's trail with the brightness of the trails of neighboring stars on a photography obtained by a stationary camera. The second method consists in a visual comparison of the satellite's brightness with the brightness of stars located along its path. Both methods are used at Soviet observation stations.

L.V. Terent'yeva

Card 6/6

LOZINSKIY, A.M.; MASEVICH, A.G.

Optical observations of artificial earth satellites in the U.S.S.R.

Meshdunar. geofis. god no.5:23-28 '58. (MIRA 11:10)

(Artificial satellites)

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AUTHOR:

Masevich, A. G., Deput Chairman of the

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Astronomical Council AS UBSR

TIPLE:

A New Efficacious Instrument for the

Knowledge of the Universe (Novoye offektivnoye oruquya

poznanija vselencejy.

PERIODICAL:

Vestnik AN SSSR, 1956, Vol. 26, Mr 1, 1p. 8-12 (USGR)

ABSTRACT:

The first earth satellite was of scherical shape and had a diameter of 55 cm and a weight of 85,6 kg. It was launched on October 4, 1957 and disappeared on January 4, 1958. The greatest height of its orbit was 900 km. The second surth satellite forms the last rocket step and weights more than 1/2 ton. The greatest height of its orbit is 1700 km. The orbits of the earth satellite have a proximately the form of an ellipse, one of the foci of which is in the center of the earth. The plane of both arbits is in the center

of the earth. The plane of both orbits is inclined towards the equatorial plane at an angle of 65°. Because of the

rotation of the earth, the earth satellite in each successive revolution passes a domain which is located approximately by 1000 to 7000 km more west than the preceding one, in dependence of the degree of latitude.

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A New Efficacious Instrument f r the Knowledge of the Universe

30-1-2 39

The period of a rotation of the first earth satellite at first amounted to 96,2 minutes and that of the second to 103,7 minutes. The earth satellites are visible only at dusk without the help of a telescope etc. For the purpose of optical observation of the artificial earth satellites, the Astronomical Council AN USCR or enized 66 special stations at the Physical-Mathematical Faculties of universities and pedarogic institutes. A special smallsized telescope AT-1 was developed and produced, of which each station received 20-25; furthermore, star charts, stop watches, and a special device for recording observed times and the receition of exact time signals were provided. The or anization for observation is described in detail, it which connection also the photo, raphic method is mention i. On the basis of deviations and modifications of the sat alite orbit conclusions may be irain concerning the modification of the force of , ravity at various points of the earth. In this manner the distribution of the earth can be accertained, which is not possible in a thorough manner by any other method. The artificial earth satellites are

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A New Efficacious Instrument for th Knowledge of the Universe

30-1-3/59

flying laboratories and make direct observations of the ionosphere of the upper atmospheric strata, of shortwavesolar radiation, possible, which is impossible to be carried out from the earth. In this way also the primary cosmic rays can be investigated. By taking with it a living being (dog) the second artificial earth satellite made it possible to carry out medical and biological investigations, the results of which will contribute greatly towards making the flight of human beings into cosmic s ace without danger possible. In this way the most important problems of estroand geophysics can be investigated and studied, which is impossible on earth.

ASSOCIATION: Astronomical Council AN USSR (Astronomicheskiy sovet

Akademii nauk SSSR).

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Card 3/3

1. Satellites-Nomenclature 2. Satellites-Motion 3. Satellites-

Observation

3(1)

AUTHOR:

Masovich, A.G.

SOV/33-35-2-16/21

TITLE:

On Some Peculiar Stars Below the Main Sequence of the H-R Diagram (O nekotorykh pekuliarnykh zvezdakh, nakhodyashchikh-sya pod glavnoy posledovatel'nost'yu diagrammy Ressella)

PERIODICAL: Astronomicheskiy zhurnal, 1958, Vol 35, Nr 2,pp 292-294 (USSR)

ABSTRACT:

According to the proposal of P.P.Parenago the author considers four stars (λ Boo, 29 Cyg, λ Aqr, 2 And) with peculiar spectra which lie below the main sequence of the H-R diagram. There seems to be no reason for taking these stars as representatives of population II. Their present position on the H-R diagram can be explained if they are considered as initially main sequence stars (1 $0 < \pi < 0.00$, 0.8 < 0.9, 0.01 < 0.1) which evolved off the main sequence as a result of an evolution with constant mass and complete mixing till a stage corresponding to X-0.5 (fig 1). The time of such an evolution is about $3.10^9 < 1.00$ years.

There are 2 tables, 1 figure, and 5 references, 3 of which are Soviet, and 2 American.

ASSOCIATION: Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga (State Astronomical Institute imeni P.K. Shternberg)

SUBMITTED: January 26, 1958

Card 1/1

CIA-RDP86-00513R001032710013-3 "APPROVED FOR RELEASE: 07/12/2001

3(1) AUTHOR:

Masevich, A.

SCY/33-35-6-17/18

TITLE:

The 10-th International Astronomical Congress in Moscow

PERIODICAL:

Astronomicheskiy zhurnal, 1958, Vol 35, Nr 6, pp 941-956 (USSR)

ABSTRACT:

The paper contains a report on the Astronomical Congress which took place from August 12 - 21,1958 in Moscow. There were 1209 participators from 35 countries. The Soviet delegation consisted of 411 scientists, from the USA there participated 225, from France 103, from Germany 73, and from England 63

scientists etc.

The opening session was addressed by A.I. Kosygin, Vice-President of the Council of Ministers of the SU by A. A. Mikhaylov, President of the Astronomical Council of the Academy of Sciences of the USSR. Furthermore, A.V. Topchiyev. Vice-President of the Academy of Sciences, and V.A.

Ambartsumyan, President of the Organization Committee of the

Congress, also spoke.

A journal of the congress with the title "Kosmos" was

published.

The following films were shown: 1. "The sun in action", USA,

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The 10-th International Astronomical Congress in Moscow

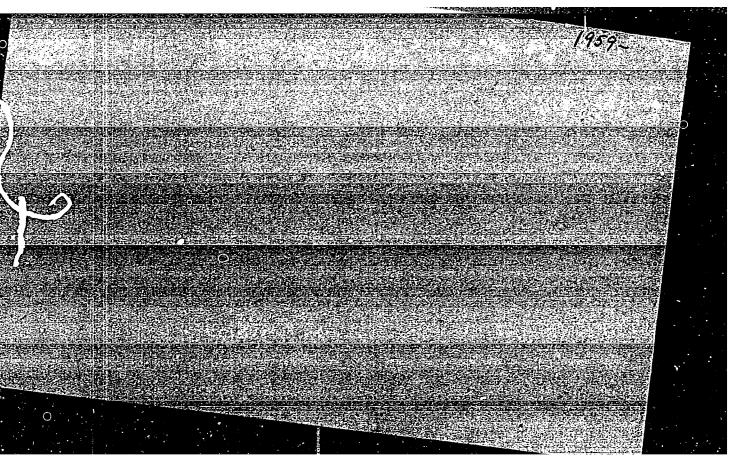
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subtitles Russian by S. Gaposhkin. 2. "Soviet in observatories" by B.A. Vorontsov - Vel'yaminov etc. The following Soviet scientists gave lectures : P.P. Parenago, I.M. Kopylov, F.N. Kholopov, K.A. Barkhatova, V.A. Ambartsumyan, A.G. Masevich, V.A. Krat, E.R. Mustel', V.G. Fesenkov, C.M. Idlis, Yel. Fedorov, A.A. Nemiro, N.N. Pavlov, D.A. Frank - Kamenetskiy, P.E. Nemirovskiy, B.A. Tverskiy, R.Z. Sagdeyev, A.B. Severnyy, S.M. Vernov, A.E. Chudakov, T.N. Nazarova, V.I. Krassovskiy, Ya.L. Al'pert, L.A. Zhekulin, A.N. Kazantsev, V.P. Tsesevich, Ye. Pavlovskaya, Yu. Pskovskiy, S.A. Zhevakin, G.A. Idlis, O.M. Hel'nikov, A.P. Vinogradov, A.A. Yavnel', L.G. Kvash, Ye.L. Ruskol, A.I. Lebedinskiy, B.Yu. Levin, V.S. Safronov, S.K. Vsekhsvyatskiy, K.A. Shteyns, V.I. Cherednichenko, I.S. Astapovich, A.L. Zel'manov, A. Masevich, P.V. Shcheglov, V.B. Nikonov, M.S. Zverev, Ye.P. Fedorov, Ye.K. Kharadze, G.D. Mamedbeyli, A.N. Deych, and M.S. Eygenson. October 3, 1958

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Card 2/2

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MASEVICH, Alla G.

"Model of the Sun."

report to be submitted for the 9th Intl. Symposium, Belgian Inst. of Astrophysics, Liego, Belgium, 6-8 July 1959.

3(1), 29(0) 3 2 100

AUTHOR:

Masevich, A. G., Doctor of Physical and

SOV/30-59-5-21/43

Mathematical Sciences

TITLE:

Astronomical Observations of Artificial Earth Satellites (Astronomicheskiye nablyudeniya iskusstvennykh sputnikov Zemli).

PERIODICAL:

Vestnik Akademii nauk SSSR, 1959, Nr 5, pp 85-94 (USSR)

ABSTRACT:

Observations are carried out in the USSR by means of the telescope AT-1 the apparatus of which was recently improved by B. Ye. Tumanyan (Yerevan). Several stations use theodolites fitted with telescopes AT-1 (Chabarovsk, Kyzl-Orda, Tartu). On this basis J. E. Binasto (Tartu) constructed an experimental automatic recording theodolite. D. Ye.Schchegolev investigated at the station of the Pulkovo observatory the methods of observing artificial earth satellites. Many stations photograph the earth satellites with the narrow film camera of the "Kiyev" and "Zorkiy" type. In the South-Sakhalin station K. N. Kan used for this purpose the telescope AT-1 as a sighting telescope. The station of the Vologda Pedagogical Institute (A. P. Poletayev) achieved considerable success in this field. In the USSE the artificial earth satellites

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are taken with wid-angle aerial photography cameras WAFA-3s/25

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Astronomical Observations of Artificial Earth Satellites SOV/30-59-5-21/43

with "Uran 9" lenses. A great part of the stations determines the position of the earth satellites by means of the method of A. N. Deych and A. A. Kiselev (Pulkovo). In order to secu: still more accurate coordination of the earth satellites large astronomical telescopes are provided with a device h permits an exact recording of the time of exposure; this is se was for the first time constructed in the Astrofiziches institut Akademii nauk Kazakhskoy SSR (Astrophysics Insulation of the Academy of Sciences of the Kazakh SSR). In this connection the author of the present paper refers to the paper by D. A. Rozhkovskiy in this periodical (foot note 2). The Astronomical Observatory imeni Engel'gardt near Kazan' constructed a special plate holder for telescopes which permits the passage through certain points of the photo plate to be recorded with respect to time. Ye. Ya. Bugoslavskaya works out a similar method of photographing earth satellites in the Astronomical Institute imeni Shternberg in Moscow. L. A. Panaytov of the Astronomical Main Observatory (Pulkovo) built a cinematographic camera. M. K. Abele, scientific collaborator of the Riga station suggested an interesting method. The Odessa Observatory evaluated results of observations made at different

Card 2/3

Astronomical Observations of Artificial Earth Satellites SOV/30-59-5-21/43

points of the surface of the earth. The author of the present paper mentions further the papers by V. P. Tsesevich (Odessa) and M. S. Zverev as well as M. I. Iesipova (Pulkovo). The results of observations of the motion of artificial earth satellites show her much the scientists all over the world endeavor to collaborate objectively. An insert shows photographs of the three Soviet artificial earth satellites in the years 1957 and 1958. All these observations are important because the orbits of the earth satellites are still within the earth's atmosphere and because their deviations from the orbits computed according to the laws of celestial mechanics permit conclusions as to the composition of atmosphere. There are 13 figures and 2 references, 1 of which is Soviet.

Card 3/3

3(1) AUTHOR:

Masevich, A. G., Doctor of Physical and 307, 23-33-4-5, 3"

Council A3 USSR

TITLE:

New Cosmic Experiments Are Planned

PERIODICAL:

Tekhnika molodezhi, 1959, Nr 11, p 9 (USSR)

ABSTRACT:

This is a short consideration of the purpose and use of advance into cosmos. The scientific research flights made in recent years converted astronomy from a deliberative into an experimental science. The possibility of observing celestial bodies outside the terrestrial atmosphere is of utmost importance. Astronomers obtained many new data on the Moon, also by taking photographs of the Far Side. Further possibilites will include the experimental investigation of Mars, venus and other planets in the solar system. It is hoped that the

desire of astronomers to establish an observatory on the Moon

Card 1/1

will be realized. Many new discoveries can be made with a telescope in the cosmic space. The investigation of ultraviolet rays absorbed by the terrestrial atmosphere might give valuable hints as to processes taking place on various celestial bodies.

ASSOCIATION:

Astronomicheskiy sovet AN SSSR (Astronomic Council, AS USSR)

CIA-RDP86-00513R001032710013-3 "APPROVED FOR RELEASE: 07/12/2001

20

3(1) SOV/33-36-3-29/29 Masevich, A.G. AUTHOR:

101st Congress of the American Astronomical Society TITLES

PERIODICAL: Astronomicheskiy zhurnal, 1959, 701 36, Nr 3, pp 557-560 (USSR)

This is a report on the annual congress of the American ABSTRACT:

December 29-30, 1958 in Astronomical Society.

Florida. It contains a short index of the lectures and a photo

of the participators of the congress.

There is 1 figure.

SUBMITTED: March 18, 1959

Card 1/1

CIA-RDP86-00513R001032710013-3" APPROVED FOR RELEASE: 07/12/2001

MASEVICH, Alla Genrikhovna, doktor fiz.-rat.nauk

Secrets of the moon. Raminima 37 mo.12:27 D '59.

(MiRa 13:3)

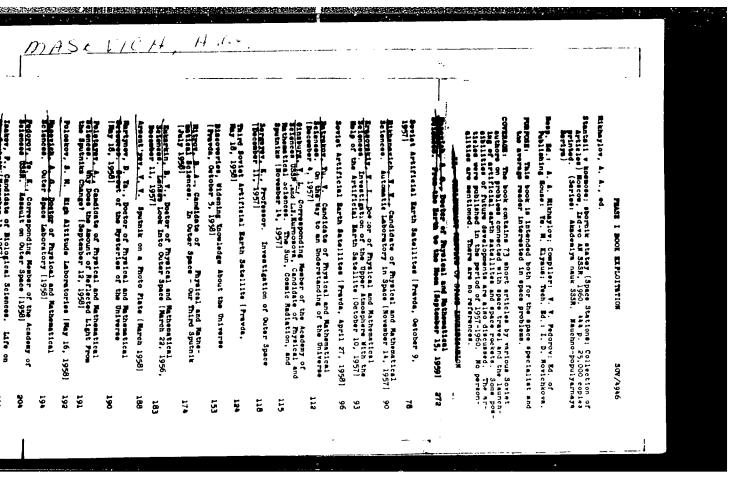
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AN SSSR.

(Moon--Surface)

DYBOVSKAYA, Irma Konstantinovna, dotsent, kand.filol.nauk; PROMTOVA, Irina Andreyevna; SUVOROVA, Vera Vasil'yevna; CHESKIS, Zoya Borisovna; DETEV, G.E., red.; MASEVICH, A.G., doktor fiz.-matem.nauk, red.; PARIYSKIY, N.E., kand.fiz.-matem.nauk, red.; TAMTSOVA, N.E., kand. tekhn.nauk, red.; TEMENT'YEVA, L.V., red.; TYAGUNOVA, Z.I., red.; KRYUCHKOVA, V.E., tekhn.red.

[French-Russian geophysical dictionary] Frantsuzsko-russkii geofisicheskii slovar'. Pod red. G.N.Deeva i dr. Moskva, Glav.re-

daktsiia inostr.mauchno-tekhn.slovarei Fismatgisa, 1960. 374 p.
(Geophysics--Dictionaries) (MIRA 13:9)
(French language--Dictionaries--Russian language)
(Russian language--Dictionaries--French language)



KHCLICHER, Val'ter [Hollitacher, Walter]; AKCHURIN, I.A. [translator];
ARKHANGEL'SKIY, H.S., [translator]; MOCHALIN, D.N. [translator];
OMCEL'YABOUNSII, M.E., akadenik, red.; GPARIN, A.I., akadenik, red.;
MASSYICH, A.G., doktor fiziko-matem.nauk, red.; OVCHIMNIKOV, N.F.,
kand.filosof.nauk, red.; TUURYUKANOV, A.N., kand.biolog.nauk, red.;
GAL'FERIN, P.Ts., dotsent, red.; URYSON, M.I., kand.biolog.nauk,
red.; MAKAROV, A.A., red.isd-ve; ZOTOVA, N.V., tekhn.red.

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kartine mire. Obahchaia red. i vatupitel'naia stat'ia M.E.
Omel'isnovskogo. Moskva, Isd-vo inostr.lit-ry, 1960. 469 p.

(MIRA 14:3)

1. AN USER (for Omel'yanovskiy).

(Science--Philosophy)

GINDIN, Ye.Z.; LEYKIN, G.A.; LOZINSKIY, A.M.; LUR'YE, M.A.; MASEVICH, A.G.; SEVERNAYA, O.A.; SENTSOVA, Yu.Ye.; SLOVOKHOTOVA, N.P.; TOL'SKAYA, V.A.; TSITOVICH, V.V.

Brief report of the Astronomical Council of the Academy of Sciences of the U.S.S.R. on visual and photographic observations of artifical earth satellites in 1957-1959. Biul. sta. opt. nabl. isk. sput. Zem. no. 6:1-33 '60. (MIRA 14:2) (Artificial satellites--Tracking)

FEDOROV. Te.; MASEFICH, A., doktor fiz.-mat.nauk

Steps toward outer space. Tekh.mol. 28 no.6:8-9 '60.

(MIRA 13:7)

1. Chlen-korrespondent AH SSSR (for Fedorov). 2. Zamestitel'

predsedatelya Astronomicheskogo soveta AH SSSR (for Masevich).

(Space ships)

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Other parts radiative equilibriam remains stable. central temperature and mensity are: $P_{s} = 12.07 \text{ k}$ \times 10^6 eK and ρ . The speed considery of line the intermediate zone is at $v=0.55\ R_{\odot}$, and the energy source of the model is the proton-proton reaction; even inside the core the contribution of the carbon cycle is moderate. The authors also carried out valculations for the enemical composition: X = 0.74, Y = 0.25, and Z = 0.0075, assumed by P. Naur, and they obtained results similar to his. A table gives a summary of 15 different models computed by various authors from 1947 to 1959 which differ in assumed laws of absorption and in chosen chemical composition. There are 2 figures; 4 tables; and 21 references; 5 Soviet, 1 Chinese, 2 German, 14 U.S. The most recent U.S. references are: M. Schwarzschl J. R. Howard, R. Harm, Astrophys. J. 125, 233, 1957; O. Abell, Astrophys. J., 121, 430, 1955; I. Epstein, R. Motz, Astrophys. J., 117, 511, 1953; Ph. Morse, Astrophys. J., 92, 27, 1940; R. L. Sears, Astron. J., 65, 53, 1956; Astrophys. J.,

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Structure of t	ne Sun
ASSOCIATION:	1.7), 489, 1959. Sternberg State Astronomical Institute and Computing Sternberg State Astronomical Institute and Computing Center of Moscow State University (Gos. astronomicheskiy Center of Moscow State University (Host in the Moscow State University (Gos. astronomicheskiy Center of Moscow State University (Gos. astronomicheskiy In-t imeni P. K. Shternberga, Vychislitelinyy tsentr MGU)
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KULAGIN, S.G.; KOVBASYUK, L.D.; DAGAYEV, M.M.; LAZAREVSKIY, V.S.;

DEMIDOVICH, Ye.G.; BRONSHTEN, V.A.; YAKHONTOVA, N.S.(Leningrad);

KUROCHKIN, N.Ye.; DOKUCHAYEVA, O.D.; SHCHERBINA-SAMOYLOVA, I.S.;

MASEVICH, A.G.; LIPSKIY, Yu.N.; MARTYNOV, D.Ya.; ARSENT'YEV, V.V.;

MOROZ, V.I.; MASEVICH, A.G.; PEREL', Yu.G.; BAKULIN, P.I., otv.

red.; KULIKOV, G.S., red.; AKHLAMOV, S.N., tekhn. red.

[Astronomical calendar; yearbook.Variable part, 1962] Astronomicheskii kalendar; ezhegodnik. Peremennaia chast, 1962. Red. kollegiia: P.I.Bakulin i dr. Moskva, Gos.izd-vo fiziko-matem. kollegiia: P.I.Bakulin i dr. Moskva, Gos.izd-vo fiziko-matem. lit-ry, 1961. 259 p. (Vsesoiuznoe astronomo-geodezicheskoe oblit-ry, 1961. 259 p. (Vsesoiuznoe astronomo-geodezicheskoe obshebstvo, no.65)

1. Gosudarstvennoye astronomo-geodezicheskoye obshchestvo (for Kalugin, Kovbasyuk, Lazarevskiy, Demidovich). 2. Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva (for Dagayev, Bronshten, Kurochkin).

(Astronomy—Yearbooks)

MASEVICE, A. G. (Prof.)

"Optical and Radio Tracking of Satellites."

report presented at the Intl. Symposium on Space Age Astronomy, Pasadena, California, 7-9 Aug 61.

Vice Pres, Astronomical Council, Acad. Sci. USSR

3/030/61/000/004/009/015 B105/B206

AUTHOR: Masevich, A. G., Doctor of Physical and Mathematical Sciences

TITLE: Three-year experience in the observation of artificial earth

satellites

Card 1/4

PERIODICAL: Vestnik Akademii nauk SSSR, no. 4, 1961, 94-98

TEXT: The international observation of artificial earth satellites is described. In 1957, a special "service for satellites" was established within the program of the International Geophysical Year, consisting of a network of observation stations and beginning to operate after the Launching of the first Soviet satellite on October 4, 1957. There are 96 such stations in the USSR, 110 in the USA, 80 in Japan, 24 in China, 9 in Poland, 7 in East Germany, 5 in Czechoslovakia, 2 each in Rumania and Yugoslavia and 1 each in Bulgaria, in Czechoslovakia, 2 each in Rumania and Yugoslavia and 1 each in Bulgaria, in Czechoslovakia, 2 each in Rumania (House of Friendship With Foreign Dom druzhby s narodami zarubezhnykh stran (House of Friendship With Foreign Peoples) which was convened by the Astronomicheskiy sovet Akademii nauk SSSR (Astronomical Council of the AS USSR). This Conference was also attended by delegates from Bulgaria, Hungary, East Germany, China, Mongolia, Poland, and

 3/030/61/000/004/009/015 **B**105/**B**206

Three-year experience ...

Czechoslovakia. Observations of Soviet satellites are reported to the USSR by a number of socialist and foreign stations and observatories. The method of visual observation is nearly the same in all stations. Telescopes of the types AT-1 and T3K (TZK) are mainly used. The method of visual and photographic observation as well as the possibilities of defining the data were discussed at the Conference. Reports were also made on new and perfected devices. The study of the gravitational field of the earth by means of analyzing the movements of the third Soviet satellite, conducted by I. D. Zhongolovich, which he concluded at the Institut teoreticheskoy astronomii Akademii nauk SSSR (Institute of Theoretical Astronomy AS USSR) is mentioned as an example. Investigation of the movement of artificial satellites led to the development of a new branch of gravimetry, the astronomicheskaya gravimetriya (Astronomical gravimetry). Its task consists in investigating the parameters of the potential of the gravitational force and in establishing a precise theory of the motion of cosmic bodies close to the earth. A novyy otdel prikladnoy nebesnoy mekhaniki (Department of Applied Celestial Mechanics), which is to evaluate the observations of the satellites and to calculate their orbits, was established at the Institute. The evaluation is done on the electronic computer of the type 63CM (BESM) of the Vychislitel:nyy tsentr Akademii nauk SSSR (Computer Center of the Academy of Sciences Card 2/4

s/030/61/000/004/009/015 B105/B206

Three-year experience ...

USSR), air density in great altitudes being defined and the ellipticity of the earth determined. Accurate photographic observations must be consulted for the determination of important parameters. L. Sekhnal investigated the effect of the pressure of the earth on the motion of near satellites at the Astronomical Institute in Ondrzheyov (Czechoslovakia). At the Potsiam Observatory, East Germany, V. Günzel-Lingner made an experiment using a big long-focus double astrograph for very accurate observations of satellites. He also elaborated a simple method for an observation station to explain ephemerides. M. K. Abele of the Riga Station and L. A. Panayotov of the Pulkovo Observatory designed special cameras for photographing weakly visible satellites. I. Almar, Budapest Observatory, Hungary, developed the "Navikord" computer which simplifies the evaluation of observations. Polish National Committee for International Geophysical Collaboration developed a special field of research, which directly evaluates observation data of satellites. The observation results of the Soviet satellites by Soviet as well as foreign stations are regularly published in special bulletins by the Astronomical Council. Data of scientific research as well as descriptions of new devices and the perfection of the method are published in the "Byulleten' stantsiy opticheskogo nablyudeniya sputnikov" (Bulletin of the

Card 3/4

S/030/61/000/004/009/015 Three-year experience ... B105/B206

Optical-observation Stations for Sputniks), which is also published by the Astronomicheskiy sovet (Astronomical Council). Detailed recommendations regarding all problems dealt with were accepted by the Conference.

Card 4/4

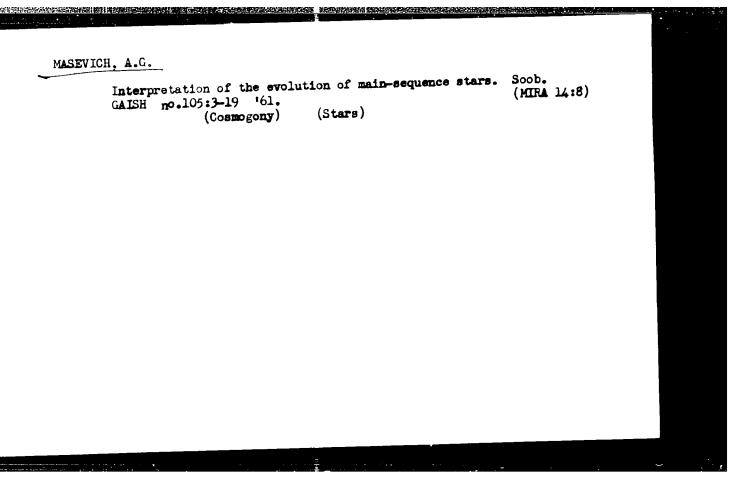
MASEVICH, A.G., doktor fiz.-matem.nauk

Extragalactic astronomy and cosmology. Vest. AN SSSR 31 no.11:
(Mina 14:11)

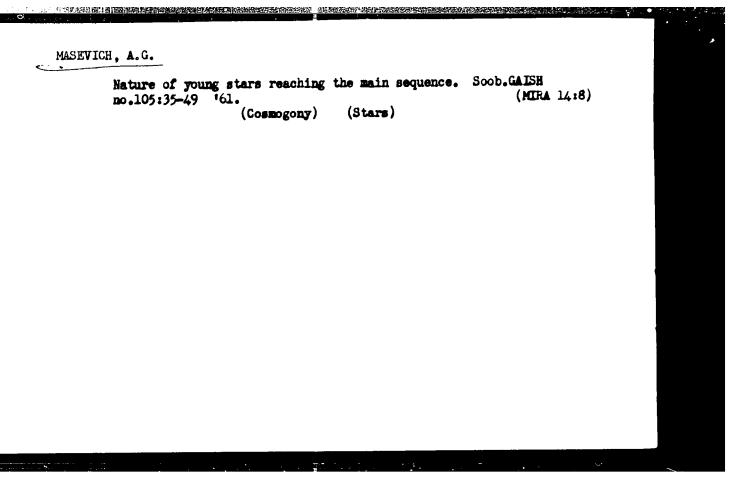
(Astronomy) (Cosmology)

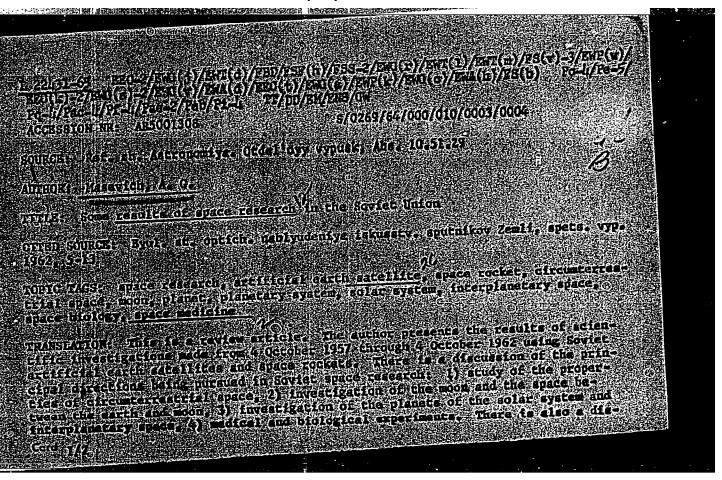
MASEVICH, A.

Symposium "Astronomy of the Space Age." Astron.zhur. 38 no.6:
1129-1132 N-D *61. (MIRA 14:11)
(Astronomy--Congresses) (Space flight--Congresses)

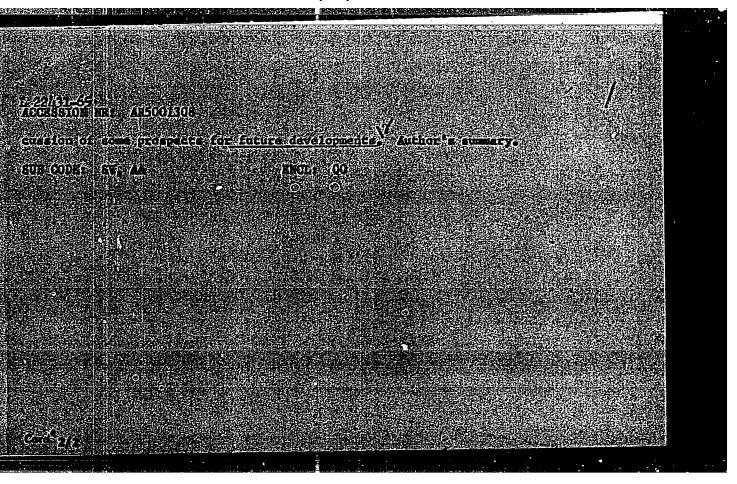


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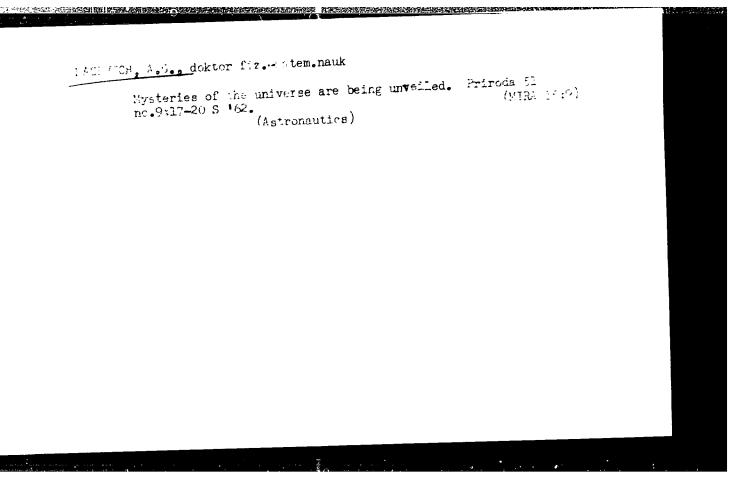
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